1st and Part Bill

Original/Duplicate/Triplicate
CONTRACT CERTIFICATE
(For Other Works)

SBRNO: 30/04-01-2018

Head of Account: **P3106 Nagarathana**

Est Cost: **610.10 Lakhs**

Job Number: 007-16-000031 21224

Division : Byatarayanapura Division

Sub Division: Kodigehalli Sub Division

Bill Received No. ..... Date..... Cash Book Voucher No..... dated.....

Scheduled Docted No.

Name of Work:- Improvements to Roads, Drains and Drilling Borwells in ward no. 07 & 08 of Kodigehalli Sub-Division of Byatarayanapura Division, under P3106 Nagarathana works.

Name of Contractor and Full Address: **Sri. G.N Ramesh, # 01, 3rd main road, 7th cross, Maruthi Extn, Bnagalore- 560 021.**

Reference to Work order No. BBMP/EE/BTP/WO/74/2017-18, Dated: 01-06-2017

Certified that the measurement were taken by me on 21/12/17 and recorded of pages 42440 - 42441 to ..... of measurement Book No: 4245/17-18 and that the work is satisfactorily executed.

Contractor :

AE(W77) Officer-In-Charge of work

Certified that the measurements were taken by me on 21/12/17 and are found correct and the work is satisfactorily executed.

Certified that the quantities of materials shown in column 3 of Account II have been actually brought to site of the work and the contractor has not previously received any advance on this security. These materials are of an imperishable nature and are all required for immediate use on the work in connection with items for finished work have been agreed upon. A normal agreement signed and executed by the contractor is recorded in the office.

II Memorandum of Payment

Division Officer

Assistant Executive Engineer, Kodigehalli Sub Division, Yelahanka Zone, B.B.M.P., Bangalore.

1) Total value of work done or supplies made as per account within	Total Rs. 2.12.49.455-00
2) Deduct amount to be held in reserve being.....percent Rs.....	
3) Deduct amount to be held in Balance	
4) Deduct Payments:	
a) Amount of previous payment as in the office Cash Book Voucher No.....Dated .....S.D No.....	IT - 212495-00
Amount adjusted towards cash advance recovery of	Cess - 21249-00
b) Payments cost store or other materials supplied	CBT - 21249-00
Now made recovery of amount creditable to this/other work	LR - 216744-00
Amount paid on this bill Cheque/Cash	Adj: 6.62.983-00
5) Balance being unpaid value of work done held in reserve	Cheque: 2.05,86,472-00
6) Deduct cash advance made on the Office Cash Book Voucher No..... dated..... less adjustments	
7) Net amount due to or from contractor Unadjusted items	
8) Advance to contractor for materials brought to site (as detailed) with Value of Government materials supplied	

Contractor's Signature

Received Rs.

.....

by cash and by adjustment of Payment as per memorandum.

Witnesses:
1
2

Stamp

Dated..... Signature of Contractor

Paid by me by cheque No.....dated.....
Cast Rs.....dated.....

Initials of Officer making payment

(For use in the Office)

ಬಿಲ್ಲು ಮೊಬಲಗು ರೂ. 2.12.49.455-00

ಗಳಿಕೆ ಪಾಸ್ತಿ ಮುಂದಿದೆ : ಇದರಲ್ಲಿ ರೂ. 662983-00

ಹೊಂದಾಣಿಕೆ ಮಾಡಿಕೊಂಡು ಉಳಿದ ಮೊಬಲಗು 2.05.86.472-00

Rupees two crore five Lakhs eighty six thousand four hundred seventy two only

ಚೆಕ್ಕು ಮುಖಾಂತರ ನೀಡಲಾಗಿದೆ Executive Engineer

ಲೆಕ್ಕಾಧಿಕಾರಿಗಳು

BRUHATH BANGALORE MAHANAGARA
Road Infrastructure - Byatarayanapura Division

Name of Work: **Improvements to Roads, Drains and Drilling Borwells in ward no. 07 & 08 of Kodigehalli Sub-Division of Byatarayanapura Division, under P3106 Nagarathana works.**

Name of Agency :- Sri. G.N Ramesh

Job Code :- 007-16-000031 21224

Bill No : 1st and Part Bill

Item No	Description of Item of Work	Unit	Previous Measurement			Present Measurement		Total Up do date		Remarks
			Qty	Rate	Amount	Qty	Amount	Qty	Amount	
1	Removing B.S.Slab Drain and stacking Page NO 25 / Item No 5.32/PWD SR 2015-16.	Sqm	0.00	70.00	0.00	1365.30	95571.00	1365.30	95571.00	
2	Refixing stone slabs of drains and pointing in CM (1:3) Page NO 25 / Item No 5.33/PWD SR 2015-16.	Sqm	0.00	86.00	0.00	1365.30	117415.80	1365.30	117415.80	
3	Providing granite slabs of selected quality roughly dressed and fixed in cement mortar (1:6) including fixid curing etc.., complete - 10.0cms thick (Page NO 28 / Item No 5.31.1 of PW, P&IWTD SR 2015-16).	Cum	0.00	874.00	0.00	157.05	137261.70	157.05	137261.70	
4	Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications. MORTH chapter 3. Page No. 141/ Item No. 19.1/PWD SR 2015-16.	Cum	0.00	91.00	0.00	2568.60	233742.60	2568.60	233742.60	
5	Scarifying existing stone metal layer upto 75mm thick along with their bituminous surface, picking up scarified materials and stacking of old serviceable materialks with lead of 100m, sequential spreading of the salvaged aggregates with fresh aggregates on prepared base and consolidating as per water bond macadam specifications including cost of all labour, HOM of machineries complete as per specifications. MORTH chapter 5, No. 160/ Item No 21.3 /PWD SR 2015-16).	sqm	0.00	97.00	0.00	9368.70	908763.90	9368.70	908763.90	
6	Proviidng and laying, spreading and compacting graded stones aggregate to Wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per MORTH specifications. No.406, Page no. 157/ item no. 20.18/ PWD SR 2015-16	Cum	0.00	1885.00	0.00	2075.40	3912129.00	2075.40	3912129.00	

7	Cleaning the existing WBM road surface including removing of binding materials and other foreign matter with wire bushes and small picks, sweeping with brooms or soft brushes and finally dusting with old gunny bags and / compressed air to recieve bituminous treatment including cost of all materials, labour, HOM of machineries, curing complete as per specifications. specification no. 500-1.3 P. 160/ Item No 21.1 /PWD SR 2015-16.cation and direction of the engineer-in-charge of the work	sqm	0.00	14.00	0.00	181.86	2546.04	181.86	2546.04	
8	Proviidng and applying primer coat for surfaces of medium porosity like cement stabilized soil base @ 1.10 Kg/sqmt over prepared surface with S.S bitumen emulsion using bitumen tanker fitted with spray set (excluding cleaning of road surface) including cost of all material, labour HOM of machineries complete as per specifications. MORTH specification No. 502, Page No. 160/ Item No. 21.5/ PWD SR 2015-16.	Sqm	0.00	77.00	0.00	9647.70	742872.90	9647.70	742872.90	
9	Cleaning the Existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to recieve bituminous treatment including cost of all materials, labour, HOM of machineries complete as per specifications. (P. 160/ I.No. 21.2/ PWD SR 2015-16)	sqm	0.00	3.66	0.00	16766.11	61363.96	16766.11	61363.96	
10	Providing and applying tack coat using 80/100 grade nitumrn (VG 10) on prepared black topped surfaces at 2.5 kg per 10sqm, heating bitumen in boiler fitted witth spray set (excluding cleaning of road surface) including cost of all materials, labours , HOM of machineries complete as per specifications.(Page no. 160/ Item no. 21.7/ PWD SR 2015-16)	Sqm	0.00	14.63	0.00	17670.00	258512.10	17670.00	258512.10	
11	Providing and laying bituminous Macadam on prepared surface with crushed coarse aggregates as per mix formula for base/ binding course including loading of aggregates with FE loader, hot mixing of stone aggregates and bitumen in hot mix plant, transporting the mixed material in tipper to paver and mixed materials with paver finisher to the required level and grade, rolling by power roller to achieve the desired density, but excluding cost of primer/ tack coat including lead, lift and cost of all materials, labour, HOM of machineries complete as per specifications. using 100-120 TPH capacity H.M.P. with sensor paver Gr-II (50mm to 75mm)with 3.3%. (Item No. 21.11.2, Page No. 161, PWD SR 2015-16).	Cum	0.00	6000.00	0.00	104.52	627120.00	104.52	627120.00	
12	Providing and laying bituminous concrete using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher with required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 509 complete in all respects complete as per specifications.using 40-60 TPH capacity H.M.P. with sensor paver Gr-II (30mm to 45mm)with 6% CRMB-55. (Item No. 21.23.6, Page No. 164, PWD SR 2015-16).	cum	0.00	12530.00	0.00	1057.49	13250349.70	1057.49	13250349.70	

7	Cleaning the existing WBM road surface including removing of binding materials and other foreign matter with wire bushes and small picks, sweeping with brooms or soft brushes and finally dusting with old gunny bags and / compressed air to recieve bituminous treatment including cost of all materials, labour, HOM of machineries, curing complete as per specifications. specification no. 500-1.3 P. 160/ Item No 21.1 /PWD SR 2015-16.cation and direction of the engineer-in-charge of the work	sqm	0.00	14.00	0.00	181.86	2546.04	181.86	2546.04	
8	Proviidng and applying primer coat for surfaces of medium porosity like cement stabilized soil base @ 1.10 Kg/sqmt over prepared surface with S.S bitumen emulsion using bitumen tanker fitted with spray set (excluding cleaning of road surface) including cost of all material, labour HOM of machineries complete as per specifications. MORTH specification No. 502, Page No. 160/ Item No. 21.5/ PWD SR 2015-16.	Sqm	0.00	77.00	0.00	9647.70	742872.90	9647.70	742872.90	
9	Cleaning the Existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to recieve bituminous treatment including cost of all materials, labour, HOM of machineries complete as per specifications. (P. 160/ I.No. 21.2/ PWD SR 2015-16)	sqm	0.00	3.66	0.00	16766.11	61363.96	16766.11	61363.96	
10	Providing and applying tack coat using 80/100 grade nitumrn (VG 10) on prepared black topped surfaces at 2.5 kg per 10sqm, heating bitumen in boiler fitted witth spray set (excluding cleaning of road surface) including cost of all materials, labours , HOM of machineries complete as per specifications.(Page no. 160/ Item no. 21.7/ PWD SR 2015-16)	Sqm	0.00	14.63	0.00	17670.00	258512.10	17670.00	258512.10	
11	Providing and laying bituminous Macadam on prepared surface with crushed coarse aggregates as per mix formula for base/ binding course including loading of aggregates with FE loader, hot mixing of stone aggregates and bitumen in hot mix plant, transporting the mixed material in tipper to paver and mixed materials with paver finisher to the required level and grade, rolling by power roller to achieve the desired density, but excluding cost of primer/ tack coat including lead, lift and cost of all materials, labour, HOM of machineries complete as per specifications. using 100-120 TPH capacity H.M.P. with sensor paver Gr-II (50mm to 75mm)with 3.3%. (Item No. 21.11.2, Page No. 161, PWD SR 2015-16).	Cum	0.00	6000.00	0.00	104.52	627120.00	104.52	627120.00	
12	Providing and laying bituminous concrete using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher with required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 509 complete in all respects complete as per specifications.using 40-60 TPH capacity H.M.P. with sensor paver Gr-II (30mm to 45mm)with 6% CRMB-55. (Item No. 21.23.6, Page No. 164, PWD SR 2015-16).	cum	0.00	12530.00	0.00	1057.49	13250349.70	1057.49	13250349.70	

13	Lead for Disposal of debris shall be payable at carriage rates by mechanical means including loading and unloading from 0.00 to 2.00km (Page no. 133 of PWDSR 2015-16).	Sqm	0.00	86.00	0.00	2568.60	220899.60	2568.60	220899.60	
14	Earth work in surface excavation in ordinary soil for levelling and lowering the ground manually (other than foundation of buildings, culverts, road, drains & trenches of pipeline and cables) and removing the excavated stuff to to a distance not xceeding 50m and lift upto 1.5m excavated surface levelled and neatly dressed, disposed earth to be leveled after breaking of clods and neatly dressed as per specifications. KBS 2.1 (a)/2.3.1 No. 5/ Item No. 2.1/PWD SR 2015-16.	cum	0.00	175.00	0.00	59.25	10368.75	59.25	10368.75	
50	KSRB 4-1.3 : Providing and laying in position plain cement concrete of mix 1:4:8 with OPC cement @ 180 kgs with 40mm and down size graded granite metal coarse aggregates @ 0.85cum and fine aggregares @ 0.57 cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1,4.2. No. 12/ Item No. 4.3/ PWD SR 2015-16	Cum	0.00	5577.00	0.00	99.52	555023.04	99.52	555023.04	
51	Vaccum De-watering with vaccum pump and suction mat and compaction with skin floater clubbed with floating disc including cst of generator, HOM of machinery screed vibaratory, power floater, blade and disc etc., with all leads and lift. (P171, It No. 22.7)	sqm	0.00	106.00	0.00	645.45	68417.70	645.45	68417.70	
57	KSRB 5.3-1:Providing and constructing granite /trap/basalt size stone masonry in foundation with cement mortar 1:6, stone hammered dressed in courses not less than 20cms hign, bond stones at two m apart in each course including cost of materials, labour, curing etc., complete as per specifications.(P-235. Item No. 5.3)	Cum	0.00	4237.00	0.00	8.10	34319.70	8.10	34319.70	
59	KSRB 15.1.4: Providing ruled pointing to coursed stone masonry with cement mortar 1:4, 20 mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications cement mortar 1:4. Page No. 112 / Item No. 15.4 / PWD SR 2015-16	sqm	0.00	106.00	0.00	18.00	1908.00	18.00	1908.00	
60	KSRB 4-1.6 : Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240 kgs with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregates @ 0.459 cum, machine mixed, concrete laid in layers not exceeding 15cms, thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications, specification. No. KBS 4.1,4.2. No. 12/ Item No. 4.6/ PWD SR 2015-16	cum	0.00	6039.00	0.00	1.80	10870.20	1.80	10870.20	

E-2	KSRRB M400-6.1: Construction of Granular Sub Base by providing close graded Crushed stone aggragate granite /trap/basalt materials, mixing in a mechanical mix plant at OMC, carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per specifications A. Plant Mix Method Gor Grading II Material Page No. 154 / Item No. 20.4.2 / PWD SR 2015-16	cum	0.00	1914.72	0.00	0.00	0.00	0.00	0.00	
E-3	Cement concrete pavement. Construction of un-reinfirced plain cement concrete pavement, thickness as per deisgn, over a prepraed sub base with OPC cement or any other type as per clause 1051..2.2 with 25mm and down size graded granite metal coarse aggregates and fine aggregates ,with superplastiser @ 3lts confirming to IS9103-1999 REAFFIRMED-2008, Mixed in a concrete mixer of not less than 0.6 cum capacity and approximate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates inlcuding levelling the form work as per drawing) and spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished in a continous operation including, provision of contraction, expansion, construction operation including longitudinal joints, including groove cutting charges joint filler, sparation menebrane, sealant, admixtures as approved, curing compound, finishing to lines and grades as per drawing complete as per specfication.M20 (AT 300 Kg per cum coarse aggregats @ 0.69cum and fine aggregate @0.43cum) (Pg No.174, It No.22.6.1)	cum	0.00	7149.41	0.00	0.00	0.00	0.00	0.00	
E-4	Providing and fixing 20 cm thick pre cast RCC covering slab using reinforced cement concrete M 20 mix with stone aggregate 20 mm and down size including centring shuttering reinforcement and bar bending machine mixed concrete laid in layers not exceeding 15 cm thick wellcompacted cost of all materials labour curing comlete as per specification (Data Rate)	sqm	0.00	5876.63	0.00	0.00	0.00	0.00	0.00	
					Grand Total		**21249455.69**		**21249455.69**	

Certificate:

1 **Certified that the contractor has done the work satisfactorly**
2 **Certified that the debris has been removed from the site**
3 **Certified that the above item of the work were not claimed in any other bill**

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.
Bangalore.